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* * * * * Welcome to STN International * * * * *

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NEWS 3 APR 15 WPIDS, WPINDEX, and WPIX enhanced with new
predefined hit display formats
NEWS 4 APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 5 APR 28 IMSRESEARCH reloaded with enhancements
NEWS 6 MAY 30 INPAFAMDB now available on STN for patent family
searching
NEWS 7 MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology
sequence search option
NEWS 8 JUN 06 EPFULL enhanced with 260,000 English abstracts
NEWS 9 JUN 06 KOREAPAT updated with 41,000 documents
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NEWS 18 JUL 28 EPFULL enhanced with additional legal status
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NEWS 21 AUG 01 INPADOCDB and INPAFAMDB coverage enhanced
NEWS 22 AUG 13 CA/CAPLUS enhanced with printed Chemical Abstracts
page images from 1967-1998
NEWS 23 AUG 15 CAOLD to be discontinued on December 31, 2008
NEWS 24 AUG 15 CAPLUS currency for Korean patents enhanced
NEWS 25 AUG 25 CA/CAPLUS, CASREACT, and IFI and USPAT databases
enhanced for more flexible patent number searching
NEWS 26 AUG 27 CAS definition of basic patents expanded to ensure
comprehensive access to substance and sequence
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NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:52:16 ON 09 SEP 2008

=> file reg
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

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STRUCTURE FILE UPDATES: 8 SEP 2008 HIGHEST RN 1047724-15-1
DICTIONARY FILE UPDATES: 8 SEP 2008 HIGHEST RN 1047724-15-1

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

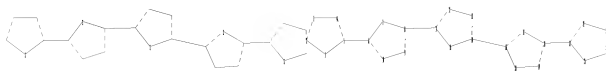
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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

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=>
Uploading C:\Program Files\Stnexp\Queries\10566166.str

09/09/2008,10566166II.trn



```
ring nodes :
1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 25
chain bonds :
5-6 8-11 14-16 18-21
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-15 12-13 13-14
14-15 16-17 16-20 17-18 18-19 19-20 21-22 21-25 22-23 23-24 24-25
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10 11-12 11-15 12-13 13-14
14-15 16-17 16-20 17-18 18-19 19-20 21-22 21-25 22-23 23-24 24-25
exact bonds :
5-6 8-11 14-16 18-21
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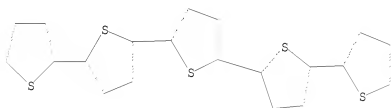
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom
```

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 09:52:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 236 TO ITERATE

100.0% PROCESSED 236 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

09/09/2008,10566166II.trn

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3799 TO 5641
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 09:52:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5533 TO ITERATE

100.0% PROCESSED 5533 ITERATIONS 11 ANSWERS
SEARCH TIME: 00.00.01

L3 11 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 178.36 178.57

FILE 'CAPLUS' ENTERED AT 09:52:58 ON 09 SEP 2008
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FILE COVERS 1907 - 9 Sep 2008 VOL 149 ISS 11
FILE LAST UPDATED: 8 Sep 2008 (20080908/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

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=> s l3

L4 5 L3

=> d ed abs ibib hitstr tot

14 ANHEM 1 OF 5 CAPLOS COPYRIGHT 2008 ACS on STN

ED Entered STN: 12 Jan 2008

AB New oligothiophenes having a photochromic switching unit were synthesized.

Upon irradiation with UV and visible light the oligomers underwent photochromic reactions in solution. The chain length dependence on the photoactivity was examined to reveal that the reactivity decreased as the chain length gets longer. These mole. can be used as new photochromic

switch.

ACCESSION NUMBER: 2006128176 CAPLOS

DOCUMENT NUMBER: 1444215593

TITLE: Photochromic oligothiophenes

AUTHOR(S): Taniguchi, Naoki; Irie, Masahiro; Hirotsu, Kenji

CORPORATE SOURCE: Preliminary Research for Organic Science and Technology (PRESTO), Japan Science and Technology Agency (JST), Kyoto University, 746 Nakotoke,

Fukushima,

Saitama 305-8565, Japan

SOURCE: Chemistry Letters 2005(3), 34(12), 1580-1581

COUNTRY: JAPAN; ISSN: 0360-3022

JOURNAL: Chemical Society of Japan

LANGUAGE: English

OTHER SOURCE(S): CASREACT 144:212593

17 879336-42-TP

RI: RCT (Reactant); SP: SP (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

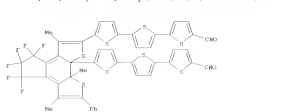
(Preparation and photocyclization of photochromic oligothiophenes)

879336-41-3 CAPLOS

CH [2,2',5',5'',2'''-terthiophene]-5-carboxaldehyde, 5'',5''''''-(4,4,5,5,6,6-hexafluoro-4,5,9b-tetrahydro-9b-methoxy-3,7'-dimethyl-2-phenyl-9a-indeno[5,4-b],7-b''-dithiophene-9,9a-diyl)bis- (PC1) (CA INDEX NAME)

14 ANHEM 1 OF 5 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

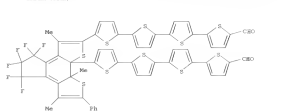
hexafluoro-4,5,6,9b-tetrahydro-7,9b-trimethyl-2-phenyl-9a-indeno[5,4-b],7-b''-dithiophene-9,9a-diyl)bis- (PC1) (CA INDEX NAME)



RI 879336-43-8 CAPLOS

CH [2,2',5',5'',2'''-terthiophene]-5-carboxaldehyde,

5'',5''''''-(4,4,5,5,6,6-hexafluoro-4,5,9b-tetrahydro-9b-methoxy-3,7'-dimethyl-2-phenyl-9a-indeno[5,4-b],7-b''-dithiophene-9,9a-diyl)bis- (PC1) (CA INDEX NAME)



RI 879336-43-9 CAPLOS

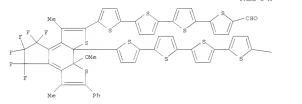
CH [2,2',5',5'',2'''-terthiophene]-5-carboxaldehyde,

5'',5''''''-(4,4,5,5,6,6-hexafluoro-4,5,9b-tetrahydro-9b-methoxy-3,7'-dimethyl-2-phenyl-9a-indeno[5,4-b],7-b''-dithiophene-9,9a-diyl)bis- (PC1) (CA INDEX NAME)



14 ANHEM 1 OF 5 CAPLOS COPYRIGHT 2008 ACS on STN (Continued)

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PAGE 1-B

